

AMENDMENTS TO THE CLAIMS

1. Cancelled.
2. (Currently amended) Mixer according to Claim 1, ~~characterized in that~~ the 15, wherein said guide plate deposition surface (~~11a~~) takes up approximately 20% to approximately 40%, preferably approximately 30%, of the angular range around the rotating axis (~~7a~~).
3. (Currently amended) Mixer according to Claim 1 ~~or 2~~, ~~characterized in that~~ wherein the distance of a radially outer boundary (~~13~~) of the said guide plate deposition surface (~~11a~~) to the ~~rotating said rotation~~ axis (~~7a~~) is essentially the same over the length of the boundary (~~13~~) in the direction of rotation (~~D~~) of said mixing screw.
4. (Currently amended) Mixer according to ~~one of the Claims 1 to 3~~, ~~characterized in that~~ the claim 15, wherein said guide plate the deposition surface (~~11a~~) comprises a greater width in the direction of rotation (~~D~~) in an outer region radially with regard to the ~~rotating said rotation~~ axis (~~7a~~) than in a radially inner region.
5. (Currently amended) Mixer according to ~~one of the Claims 1 to 4~~, ~~characterized in that~~ the claim 4, wherein said guide plate deposition surface (~~11a~~) comprises a shape similar to a circular sector or cake slice.
6. (Currently amended) Mixer according to ~~one of the Claims 1 to 5~~, ~~characterized in that~~ the claim 15, wherein said guide plate (~~11~~) comprises a leading take-up edge (~~12~~), the radially outer section of which is arranged trailing compared to its radially inner section in the direction of rotation (~~D~~).

7. (Currently amended) Mixer according to Claim 6, ~~characterized in that the~~ wherein said take-up edge (12) ~~essentially runs~~ substantially tangential to a screw shaft (8) containing ~~the rotating~~ said rotational axis (7a).
8. (Currently amended) Mixer according to ~~one of the Claims 1 to 7, characterized in that the~~ claim 15, wherein said deposition surface (11a) runs at a downward pitch angle relative to said vertical rotational axis.
9. (Currently amended) Mixer according to ~~one of the Claims 1 to 8, characterized in that the~~ claim 15, wherein said guide plate deposition surface (11a) is ~~formed flat and generally transverse~~ to said vertical rotational axis.
10. (Currently amended) Mixer according to ~~one of the Claims 1 to 9, characterized in that~~ claim 15, wherein at least two said guide plates each having a deposition ~~surfaces~~ (11a) surface are provided, distributed evenly around the rotating axis (9a).
11. (Currently amended) Mixer according to ~~one of the Claims 1 to 10, characterized in that~~ claim 15, wherein the guide plate (11) is connected to the ~~lower winding~~ leading take up edge of the ~~spiral (9)~~ said flight of the mixing screw (7).
12. (Currently amended) Mixer according to ~~one of the Claims 1 to 10, characterized in that~~ claim 15, wherein a trailing edge (14) of the guide plate (11) is arranged at a vertical distance (v) above and a horizontal distance (h) in front of a the leading take-up edge (18) of the flight of the mixing screw (17).
13. (Currently amended) Mixer according to ~~one of the Claims 1 to 10, characterized in that~~ claim 15, wherein a trailing edge (14) of the guide plate (11) is arranged at a vertical distance (v)

above the leading take-up edge (28) of the mixing screw (27) and is overlapping the leading take-up edge (28) with a horizontal distance (h).

14. (Currently amended) Mixer according to ~~one of the Claims 1 to 13, characterized in that~~ claim 15, wherein the mixing screw (7, 17, 27) comprises a ~~spiral (9) flight~~ with which the diameter of the lowermost winding compared to the diameter of the second lowermost winding narrows more than the diameter of the second lowermost winding compared to the diameter of the winding following the second lowermost winding.

15. (New) A feed mixer, comprising:

a mixing chamber having a bottom and a discharge opening in a vertically extending wall for the mix;

a mixing screw in the mixing chamber that is driven about a vertical rotational axis, the mixing screw including at least one generally helical flight including a leading edge, said flight being dimensioned to have its greatest radius from the vertical rotational axis at the leading edge, and decrease upwardly; and

a rotary driven device adjacent said mixing chamber bottom for smoothing the discharge of the mix in the lower section of the mixing that rotates past said discharge opening, said rotary driven device comprising at least two guide plates equally spaced around said vertical rotational axis to increase the action of the centrifugal force on the mix;

each said guide plate including a leading take-up edge in the direction of rotation, a trailing edge, and an upwardly facing deposition surface for the mix and having a radially outer boundary with a circumferential length and a distance to said rotational axis;

wherein the radial distance of the boundary of said deposition surface of each of said guide plates to the rotational axis is substantially equal along its circumferential length in the rotating direction, and is greater than the greatest radial distance of the flight to said vertical rotational axis.

16. (New) Mixer according to claim 11 wherein the trailing edge of one of said guide plates is fixedly attached to the leading edge of said flight.
17. (New) Mixer according to claim 15 wherein the trailing edge of each said guide plate has a downwardly extending wall.
18. (New) Mixer according to claim 12 wherein each of said guide plates is tilted at a downward angle from the screw vertical rotational axis.
19. (New) Mixer according to claim 18 wherein the trailing edge of each said guide plate has an angled downwardly extending wall.